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## PATENT ABSTRACTS OF JAPAN

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(30) Priority

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## (54) REAGENT FOR ENZYME IMMUNOASSAY AND PRODUCTION THEREOF

## (57) Abstract:

PURPOSE: To improve the sensitivity and reproducibility of the measuring method by forming a labeling enzyme of glucose oxidase GOD and constituting the reagent of enzyme labeled antibodies formed by combining 3 molecules of an antibody or antigen to one molecule of the GOD.

CONSTITUTION: This reagent is prep'd. by mixing the GOD and the antibodies at a ratio of two-fold the number of the antibodies to be introduced into one molecule of the GOD and is in the form of a soln. or powder. The enzyme labeled antibodies are prep'd. by mixing the GOD and the antibodies at a ratio of 1:2, 1:4, 1:6 (molar ratio) in the case of obtaining the enzyme labeled antibodies of 1, 2, 3 numbers of the antibodies.

respectively. The enzyme labeled antibodies of mainly 1, 2, 3 numbers of the antibodies are obtd. at the high yield and with the good reproducibility by preparing the above-mentioned antibodies at the above-mentioned ratio. The enzyme labeled antibodies prep'd. in such a manner are separated from the unreacted antibodies (about 45,000mol.wt.) and further the unreacted GOD (about 150,000mol.wt.) and the enzyme labeled antibodies of the different numbers of the antibodies generated as a side reaction when the column for high-performance gel chromatograph having about  $\geq$ 600,000 expulsion threshold and about  $\geq$ 15,000 theoretical step number is used.

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